



3rd INTERNATIONAL CONFERENCE ON MACHINE INTELLIGENCE AND SIGNAL PROCESSING

MISP-2021

<https://www.misp.nitap.ac.in>

Organized by

NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH, INDIA

SEPTEMBER 23-25, 2021

1. *Title of the Special Session: Medical signal/image processing and analysis.*

2. *Details of Session Chair and Co-Chair:*

Session Chair: Dr. Saugata Sinha, Assistant Professor, Visvesvaraya National Institute of Technology, NAGPUR, INDIA.

Ph.D in Imaging Science from Rochester Institute of Technology, USA

Co-Chair: Mr. A. Prabhakara Rao, Associate Professor, Vishnu Institute of Technology, Bhimavaram, A.P., INDIA.

(Submitted Ph.D Thesis (Title: Photoacoustic Imaging for management of breast cancer) at Visvesvaraya National Institute of Technology, NAGPUR. This research work was done under the guidance of Dr. Saugata Sinha and it was funded by Ministry of Electronics and Information Technology, Govt. of India)

3. *Aims & Scope (Theme of Session):*

Provide the brief description of your special session.

Recently, signal and image processing have become an integral part of medical practice. With the advancements of computational hardwares and algorithms, tasks like medical data processing, medical image/signal reconstruction from acquired raw medical data and analysis of medical signals/images for detecting as well as classifying different pathologies are becoming increasingly important in different aspects of diagnosis, management and therapy of patients. Medical signal/image processing and analysis is a dynamic and emerging area of biomedical engineering. It includes both the academic and research aspects of biomedical engineering. This field presents many research challenges concerning the standalone and multi-modality imaging techniques to address traditional problems such as segmentation, registration, reconstruction, etc.

The objective of this special session is to provide a platform for researchers to review and share the recent advances in this emerging field of medical signal and image processing. This special session is intended to invite contributions in the form of original papers on novel findings



and applications in this emerging area from researchers, academicians, and industrial practitioners.

4. Subtopics:

1. EEG/ECG/US Signal Processing and Analysis.
2. Medical image reconstruction.
3. Medical image denoising and segmentation.
4. Fusion of multimodal medical images.
5. Analysis of medical signal/images for early detection of different pathologies.
6. Deep learning in medical imaging.
7. Emerging medical imaging modalities like Optical imaging, Photoacoustic Imaging etc.
8. Functional imaging.

5. Technical Programme Committee(s):

1. Dr. Srijan Mazumdar, Indian Institute of Liver and Digestive Sciences
2. Dr. Kajal Mitra, N. K. P. Salve Institute of Medical Sciences & Research Centre and Lata Mangeshkar Hospital
3. Dr. Deep Gupta, VNIT, NAGPUR
4. Dr. Pradnya Ghare, VNIT, Nagpur.
5. Dr. Ashwin Kothari, VNIT, Nagpur.

Submission Procedure: Researchers and practitioners are invited to submit papers through the below given easy chair link:

[Springer Author's Guidelines](#)

[EasyChair Submission](#)

All submissions must be original and may not be under review by another publication. The submitted papers will be reviewed on a double-blind and peer review basis.

Publications:

All accepted and registered papers under MISP 2021 will be considered for publication in Springer Book Series, "Advances in Intelligent Systems and Computing".

All inquiries should be directed to the attention of Co-Chair:

Name: A. Prabhakara Rao

Designation: Associate Professor

Email Id: prabhakararao.a@vishnu.edu.in

Contact Number: 7219102959



Submission Guidelines for Authors

- ❖ Prospective authors are invited to submit original research work that falls within the scope of the session. All submissions will be thoroughly peer-reviewed by experts based on originality, significance and clarity.
- ❖ Only papers presenting novel research results or successful innovative applications will be considered for publication in the conference proceedings.
- ❖ Authors are requested to submit their Manuscripts through the Easy Chair System. The paper must be in Springer AISC series format and of maximum 12 pages. Authors are requested to submit their Manuscripts through the Easy Chair System.
- ❖ Authors are requested to kindly strictly follow the paper format. Please visit conference webpage for paper format <https://www.misp.nitap.ac.in>.

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- ❖ Hence, it is the responsibility of each author to strive for the highest ethical standards with respect to plagiarism.

Special Session Timeline

Paper Submission Deadline: 1st April 2021
Notice of Acceptance: 1st May 2021
Camera Ready Due: 10th May 2021
Registration Due: 15th May 2021
Conference Date: 23rd -25th September 2021

